



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M Street, S.W.**  
**WASHINGTON, D.C. 20460**

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**DATA MATRIX**

Date: September 17, 2004

EPA Reg. No./File Symbol: 432-XXX

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Applicant's/Registrant's Name & Address: Bayer Environmental Science  
 A Business Unit of Bayer CropScience, LP  
 95 Chestnut Ridge Road  
 Montvale, NJ 07645

Product: Allectus GC SC

Ingredient: Imidacloprid CAS # 138267-41-3

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1	Identity of ingredients	42055302 43306001	Bayer Environmental Science 432- BR 1759 (TGAI) BR 1879 (TGAI)	OWN	
61-2	Statement of Composition	42055302 43306001	Bayer Environmental Science 432- BR 1759 (TGAI) BR 1879 (TGAI)	OWN	
61-3	Discussion of formation of ingredients	42055302	Bayer Environmental Science 432- BR 1759 (TGAI)	OWN	
62-1	Preliminary analysis	42055303 43306002 44344101	Bayer Environmental Science 432- BR 1760 (TGAI) BR 1880 (TGAI)	OWN	
62-2	Certification of Limits	42055303 43306002	Bayer Environmental Science 432- BR 1760 (TGAI) BR 1880 (TGAI)	OWN	
62-3	Analytical method for enforcement limits	42055303 43213001 43306002	Bayer Environmental Science 432 BR 1760 (TGAI) BR 1874 (TGAI) BR 1880 (TGAI)	OWN	
63-2	Appearance	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

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Name and Title: Allectus GC SC

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Ingredient: Imidacloprid CAS # 138267-41-3		

63-3	Physical State	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-4	Odor	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-5	Melting Point	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-6	Boiling Point	42055304	Bayer Environmental Science 432- BR 1761(TGAI)	OWN	
63-7	Density, bulk-density, or specific gravity	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-8	Solubility	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-9	Vapor Pressure	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-10	Dissociation constant			OWN	N.A - Does not dissociate
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Bayer Environmental Science 432-		

Signature <i>Richard M. Harrell</i>	Name and Title: Allectus GC SC	Date: September 17, 2004
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Ingredient: Imidacloprid CAS # 138267-41-3		

63-11	Octanol/water partition coefficient	42055304	BR 1761 (TGAI)	OWN	
	pH	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-12					
63-13	Stability	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-14	Oxidizing or Reduction Potential			OWN	N.A. - Does not have oxidative or reduction characteristics
63-15	Flammability	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-16	Explosibility	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-17	Storage Stability	42055304	Bayer Environmental Science 432- BR 1761 (TGAI)	OWN	
63-18	Viscosity		Bayer Environmental Science 432-	OWN	
63-19	Miscibility			OWN	N.A. - Not intended for dilution with petroleum solvents
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
63-20	Corrosion characteristics		Bayer Environmental Science 432-		

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Ingredient: Imidacloprid CAS # 138267-41-3		

		42055304	BR 1761 (TGAI)	OWN	
63-21	Dielectric breakdown			OWN	N.A.- Not intended for use around electrical equipment
64-1	Samples		Samples available upon request	OWN	
Section 158.490	<u>ECOLOGICAL EFFECTS</u>		Bayer Environmental Science		
71-1	Acute Avian Oral LD <sub>50</sub>	42055308	432- Report No. 100059	OWN	
71-2(a)	Avian Dietary LC <sub>50</sub> - Quail	42055310	Bayer Environmental Science 432- Report No. 100241	OWN	
71-2(b)	Avian Dietary LC <sub>50</sub> - Duck	42055311	Bayer Environmental Science 432- Report No. 100238	OWN	
71-3	Wild Mammal Toxicity	NR- based on acute toxicity		OWN	
71-4(a)	Avian Reproduction - Quail	42055312	Bayer Environmental Science 432- Report No. 101203	OWN	

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Ingredient: Imidacloprid CAS # 138267-41-3		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
71-4(b)	Avian Reproduction - Duck	42055313 42480502 42805101 43466501 43466502	Bayer Environmental Science 432- Report No. 101205 Report No. 103813 Report No. 103813-1 Report No. 106623 Report No. 106630	OWN	
71-5	Simulated or Actual Field Study	42737101	Bayer Environmental Science 432- Report No. 105002	OWN	
72-1(a)	Acute Fish Toxicity - Bluegill	42055314	Bayer Environmental Science 432- Report No. 100348	OWN	
72-1(b)	Acute Fish Toxicity - Rainbow trout	42055315 42055316	Bayer Environmental Science 432- Report No. 100349 Report No. 101303	OWN	
Section 158.490  72-2(a)	<u>ECOLOGICAL EFFECTS</u> (continued) Acute Aquatic Invertebrate Toxicity - Daphnia	42055317	Bayer Environmental Science 432- Report No. 100245	OWN	
72-2(b)	Acute Aquatic Invertebrate Toxicity - Amphipods	42256303	Bayer Environmental Science 432- Report No. 101960	OWN	

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Ingredient: Imidacloprid CAS # 138267-41-3		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
72-2(c)	Acute Aquatic Invertebrate Toxicity - Chironomids	42256304	Bayer Environmental Science 432-Report No. 101985	OWN	
72-3(a)	Estuarine/Marine Organism - Fish	42055318	Bayer Environmental Science 432-Report No. 100354	OWN	
72-3(b)	Estuarine/Marine Organism - Mollusk	42256305	Bayer Environmental Science 432-Report No. 101978	OWN	
72-3(c)	Estuarine/Marine Organism - Shrimp	42055319 42528301	Bayer Environmental Science 432-Report No. 100355 Report No. 103845	OWN	
72-4(a)	Early Life Stage - Fish	42055320 42480501	Bayer Environmental Science 432-	OWN	
72-4(b)	Life Cycle - Aquatic Invertebrate	42055321 42055322	Bayer Environmental Science 432-Report No. 101247 Report No. 101347	OWN	
72-7	Simulated or Actual Field Study		Bayer Environmental Science 432-Report No. 102600	OWN	
Section 158.340 81-1	TOXICOLOGY Acute oral toxicity, rat	42055331	Bayer Environmental Science 432-RN 100040 (TGAI)	OWN	

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Ingredient: Imidacloprid CAS # 138267-41-3		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
81-2	Acute dermal toxicity, rat	42055332	Bayer Environmental Science 432- RN 100041 (TGAI)	OWN	
81-3	Acute inhalation toxicity, rat	42055333 42286101	Bayer Environmental Science 432- RN 99806 (TGAI) RN 99806-1 (TGAI)	OWN	
81-4	Primary eye irritation, rabbit	42055334	Bayer Environmental Science 432- RN 99679 (TGAI)	OWN	
81-5	Primary dermal irritation, rabbit	42055335	Bayer Environmental Science 432- RN 99804 (TGAI)	OWN	
81-6	Dermal sensitization, guinea pig	42055336	Bayer Environmental Science 432- RN 99800 (TGAI)	OWN	
81-8-SS	Acute Neurotoxicity Screening - Rat	43170301 43285801	Bayer Environmental Science 432- Report No. 106348 Report No. 106348-1	OWN	
82-1(a)	90 Day Subchronic - Rodent	42256327	Bayer Environmental Science 432- Report No. 100036	OWN	

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Ingredient: Imidacloprid CAS # 138267-41-3		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Section 158.340 82-1(b)	<u>TOXICOLOGY</u> 90-Day Subchronic - Non-rodent	42256328	Bayer Environmental Science 432- Report No. 100176	OWN	
82-2	21-Day Repeated Dose Dermal Toxicity	42256329	Bayer Environmental Science 432- Report No. 100688	OWN	
82-5(b)	Subchronic Neurotoxicity Screening - Rat	43286401	Bayer Environmental Science 432- Report No. 106356	OWN	
83-1(a)	Chronic Feeding Study - Rodent	42256331 42256332 42256333 42256334	Bayer Environmental Science 432- Report No. 100652 Report No. 101931 Report No. 102658 Report No. 99672	OWN	
83-1(b)	Chronic Feeding Study - Non-rodent	42273002	Bayer Environmental Science 432- Report No. 100015	OWN	
83-2(a)	Oncogenicity - Rat	42256331 42256332 42256333 42256334	Bayer Environmental Science 432- Report No. 100652 Report No. 101931 Report No. 102658 Report No. 99672	OWN	

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Ingredient: Imidacloprid CAS # 138267-41-3		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
83-2(b)	Oncogenicity - Mouse	42256335 42256336 42256337	Bayer Environmental Science 432- Report No. 100693 Report No. 101929 Report No. 99808	OWN	
Section 158.340 83-3(a)	<u>TOXICOLOGY</u> Developmental Toxicity - Rat	42256338	Bayer Environmental Science 432- Report No. 98571	OWN	
83-3(b)	Developmental Toxicity - Rabbit	42256339	Bayer Environmental Science 432- Report No. 98572	OWN	
83-4	Two Generation Reproduction	42256340	Bayer Environmental Science 432- Report No. 100647	OWN	
84-2(a)	Gene mutation	42256341 42256342 42256343	Bayer Environmental Science 432- Report No. 101276 Report No. 98584 Report No. 98570	OWN	
84-2(b)	Structural Chromosomal Aberration	42256344 42256345 42256346 42256347 42256348	Bayer Environmental Science 432- Report No. 100021 Report No. 99262 Report No. 99257 Report No. 102652 Report No. 102654	OWN	

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Ingredient: Imidacloprid CAS # 138267-41-3		

Guideline Reference Number	Guideline Study Name	MRID Number	Report No. 102655 Submitter	Status	Note
84-4	Other Genotoxic Effects	42256349 42256350 42256351 42256352 42256353	Bayer Environmental Science 432- Report No. 99676 Report No. 101275 Report No. 98573 Report No. 102653	OWN	
85-1	General Metabolism - Rat	42256354 42256355 42256356 42256357	Bayer Environmental Science 432- Report No. 101999 Report No. 87264 Report No. 87265 Report No. 102617	OWN	
Section 158.540 122-2	<u>PLANT PROTECTION</u> Aquatic Plant Growth - Algae Toxicity, Scenedesmus	42256374	Bayer Environmental Science 432- Report No. 100098	OWN	
123-2	Aquatic Plant Growth - Algae Toxicity, Selenastrum	42256375	Bayer Environmental Science 432- Report No. 101986	OWN	
Section 158.590 141-1	<u>NON-TARGET INSECTS</u> Honey Bee - Acute Contact	42273003 42480503	Bayer Environmental Science 432- Report No. 101321 Report No. 103815	OWN	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
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Ingredient: Imidacloprid CAS # 138267-41-3		

141-2	Honey Bee- Residue on Foliage	42480503 42632901	Report No. 103815 Report No. 103938	OWN	
Section 158.290	<u>ENVIRONMENTAL FATE</u>	42055337	Bayer Environmental Science 432- Report No. 99708	OWN	
161-1	Hydrolysis				
161-2	Photodegradation in Water	42256376	Bayer Environmental Science 432- Report No. 101956	OWN	
161-3	Photodegradation in Soil	42256377	Bayer Environmental Science 432- Report No. 100249	OWN	
162-1	Aerobic Soil Metabolism	42073501 42539201 42539202 42539203 42539204	Bayer Environmental Science 432- Report No. 101241 Report No. 100140 Report No. 100141 Report No. 101955 Report No. 103202	OWN	
162-2	Anerobic Soil Metabolism				Not required if 162-3 is conducted
162-3	Anerobic Aquatic Metabolism	42256378	Bayer Environmental Science 432- Report No. 101346	OWN	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
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Ingredient: Imidacloprid CAS # 138267-41-3		

163-1	Leaching and Adsorption/Desorption	42055338 42055339 42520801 42520802	Report No. 99199 Report No. 99635 Report No. 103816 Report No. 103817	OWN	
Section 158.290  164-1	<u>ENVIRONMENTAL FATE</u>  Soil Dissipation	42256379 42256380 42256381 42256382 42256383 42734101 42256384 42256385	Bayer Environmental Science 432-	OWN	
166-1	Lysimeter Study	43142501 43449501	Bayer Environmental Science 432-	OWN	
Section: Subdivision U 230-236	<u>WORKER EXPOSURE</u>  Exposure Study for Mixers/ Loaders and Applicators	42256386	Bayer Environmental Science 432-	OWN	
Section: Subdivision O Efficacy  95-12	Product Performance Data: Structural Treatments	43285101 43285102	Bayer Environmental Science 432-	OWN	

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